

9/667525 2/6/06

IN THE CLAIMS:

Please cancel claims 28-36 and add new claims 37-51 as follows:

(CANCEL CLAIMS 1-27)

37. A signal transmission and receiving apparatus comprising a transmission apparatus and a receiving apparatus,

said transmission apparatus comprising:

- a mapper operable to map a data stream including audio and video information to an n-level digital mapped signal;

- a digital filter having a VSB characteristic, which covers a frequency band including a carrier frequency, and a roll-off characteristic, said digital filter being operable to filter the n-level digital mapped signal to produce a VSB modulated signal; and

- a transmitter operable to transmit the VSB modulated signal;

said receiving apparatus comprising:

- a demodulator operable to demodulate the VSB modulated signal to the data stream including the audio and video information.

38. The signal transmission and receiving apparatus according to claim 37, wherein the digital filter is an FIR filter.

39. A signal transmission apparatus comprising:

- a mapper operable to map a data stream including audio and video information to an n-level digital mapped signal;

- a digital filter having a VSB characteristic, which covers a frequency band including a carrier frequency, and a roll-off characteristic, said digital filter being operable to filter the n-level digital mapped signal to produce a VSB modulated signal; and

- a transmitter operable to transmit the VSB modulated signal.